## IN THE CLAIMS:

- 1-3. (Canceled without prejudice)
- 4. (Currently Amended) In a A magnetic memory device, comprising:
- -a magnetoresistive effect element designed in such a manner that a ferromagnetic tunnel junction sandwiching a tunnel barrier layer is formed between a pair of ferromagnetic material layers to cause a current to flow in the direction perpendicular to the layer surface; and

a plurality of word lines; and

a plurality of bit lines, said word lines and bit lines sandwiching said magnetoresistive effect element in the thickness direction,

wherein a magnetic memory device characterized in that one of said ferromagnetic material layers is a magnetization fixed layer and the other ferromagnetic material layer is a magnetization free layer, said magnetization free layer is made of a ferromagnetic material containing Fe<sub>x</sub>Co<sub>y</sub>B<sub>z</sub> or FeCoNiB, x is from 5 to 45 atomic percent, y is from 35 to 85 atomic percent, and z is from 10 to 30 atomic percent, and

wherein said magnetization free layer has a film thickness ranging from 2 nm to 8 nm.

- 5. (Currently Amended) A magnetic memory device according to claim 4, wherein magnetoresistive effect element is a tunnel magnetoresistive effect element using a said tunnel barrier layer is made of one of an insulating or semiconductor material as said intermediate layer.
- 6. (Original) A magnetic memory device according to claim 4, wherein said magnetoresistive effect element has a laminated ferri structure.

- 7. (New) A magnetic memory device according to claim 4, wherein x is greater than 8 atomic percent.
- 8. (New) A magnetic memory device according to claim 4, wherein y is less than 72 atomic percent.
  - 9. (New) A magnetic memory device, comprising:

a magnetoresistive effect element designed in such a manner that a ferromagnetic tunnel junction sandwiching a tunnel barrier layer is formed between a pair of ferromagnetic material layers to cause a current to flow in the direction perpendicular to the layer surface;

a plurality of word lines; and

a plurality of bit lines, said word lines and bit lines sandwiching said magnetoresistive effect element in the thickness direction,

wherein one of said ferromagnetic material layers is a magnetization fixed layer and the other ferromagnetic material layer is a magnetization free layer, said magnetization free layer is made of a ferromagnetic material containing  $Fe_aCo_bNi_cB_d$ , a is from 5 to 45 atomic percent, b is from 35 to 85 atomic percent, c is greater than 0 and less than 35 atomic percent, and d is from 10 to 30 atomic percent, and

wherein said magnetization free layer has a film thickness ranging from 2 nm to 8 nm.

10. (New) A magnetic memory device according to claim 4, wherein said tunnel barrier layer is made of one of an insulating or semiconductor material.

11. (New) A magnetic memory device according to claim 4, wherein said magnetoresistive effect element has a laminated ferri structure.